

Title (en)
PERFORATED CONTACT ELECTRODE ON VERTICAL NANOWIRE ARRAY

Title (de)
PERFORIERTE KONTAKTELEKTRODE AUF VERTIKALEN NANODRAHT-ARRAYS

Title (fr)
ÉLECTRODE DE CONTACT PERFORÉE SUR UN RÉSEAU DE NANOFILS VERTICAL

Publication
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Application
EP 11842108 A 20111110

Priority
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Abstract (en)
[origin: US2012119760A1] Disclosed herein is a structure having: a support, a plurality of nanowires perpendicular to the support, and an electrode in contact with a first end of each nanowire. Each nanowire has a second end in contact with the support. The electrode contains a plurality of perforations. The electrode contains a plurality of perforations. Also disclosed herein is a method of: providing the above support and nanowires; depositing a layer of a filler material that covers a portion of each nanowire and leaves a first end of each nanowire exposed; depositing a plurality of nanoparticles onto the filler material; depositing an electrode material on the nanoparticles, the ends of the nanowires, and any exposed filler material; and removing the nanoparticles and filler material to form an electrode in contact with the first end of each nanowire; wherein the electrode contains a plurality of perforations.

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